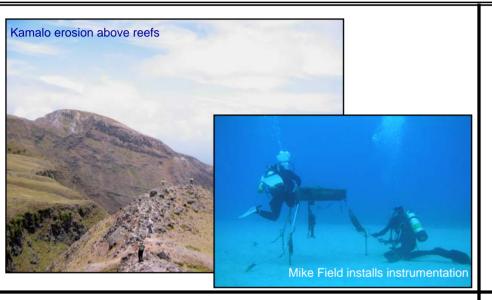


## Ridge-to-Reef: Moloka'i Investigations



PIERC Project Leader: Jim Jacobi, Ph.D. (w/ Pat Chavez, Mike Field, Barry Hill and Jon Stock)



## **Objectives**

- ☆ Evaluate reef and watershed ecosystems for sediment sources, transport, and causes
- → Develop erosion-sedimentation model that links terrestrial and marine ecosystems with resource management options
- Assess potential impact of sedimentation and algal growth on coral physiology

## **Accomplishments**

- ☆ Measured magnitude and residency patterns of sediments on reefs
- ☆ Acquired and evaluated > 2,500 aerial images of watersheds and reefs
- ☆ Installed stream gage with sediment sampler (Station # 16415600 at <a href="http://hi.water.usgs.gov/">http://hi.water.usgs.gov/</a>)
- Surveyed coral, algae, and bacteria in sedimented and unsedimented locations

## **Significance**

- Sedimentation processes are assessed relative to environmental conditions and land management within the watershed
- Active participation of resource managers including USCRTF, NPS, USFWS, NRCS, Maui County Soil & Water Conservation District, Hawaii DLNR, The Nature Conservancy, Univ. Hawaii, and community stakeholder associations

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